DENON

Hi-Fi Component

SERVICE MANUAL MODEL POA-5000

STEREO POWER AMPLIFIER

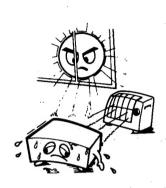


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NIPPON COLUMBIA CO., LTD.

NOTE ON USE



Be careful of high temperatures

 Do not place the set in a location where it will be exposed to direct sunlight or near a heating appliance.

Caution on rack/cabinet installation

- Avoid installing the set in a closedtype rack.
- When installing in a rack or cabinet, provide a sufficiently large ventilation opening to promote heat radiation.



Do not allow foreign matter into the equipment

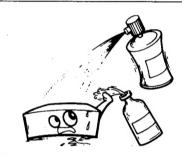
 Be especially careful of needles, hair pins, and coins getting into the set.



Caution on humidity, water, and dust

 Do not place the set in a location where there is high humidity or a lot of dust.

Flower vases or other items containing water should not be placed on top of the set.



Care of the case

 Avoid the use of pesticides near the set as well as wiping the case with benzine, thinner or other solvents since they may cause a change in quality or color. Use a soft cloth when wiping away dirt and follow the instructions carefully when using chemically treated cloths.



Care with the power cord

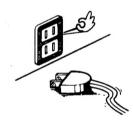
 When removing the plug from the receptacle, do not pull the power cord; be sure to hold the plug when removing it.



Do not open the case

 Opening the top cover or the bottom plate of the case and inserting your hand is dangerous. Do not open the case.

If some trouble arises with the performance of the set, remove the power plug soon and contact the store where the set was purchased or a nearby dealer.



During your absence

 When not using the set for an extended period such as when taking a trip, be sure to disconnect the plug from the receptacle.



For sets with ventilation holes

Do not block the ventilation holes of the set

- Blocking of the ventilation holes will lead to damage of the set.
- The ventilation holes are very important for heat radiation from within the set. Care must be taken since placing an object against the holes will result in an extreme rise of temperature within the set.

INSTALLATION PRECAUTIONS

Install the POA-5000 horizontally. Leave at least 15 cm of space between this unit and other components on top of the amplifier.

Protective Circuit

This set is equipped with a high speed protective circuit. This circuit protects the internal circuitry from damage due to large currents flowing when the speaker jacks are not completely connected or when an output is generated by a short circuit. This protective circuit's operation cuts off the output to the speakers. In such a case, be sure to turn the power to the set off and check the connections to the speakers. Then turn the power on again. After muting for several seconds, the set will opreate normally.

Please check to make sure the following items are included with the main unit in the carton:

- (1) Operating Instructions 1
- (2) Remote connecting cable 1

SPECIFICATIONS

POWER AMPLIFIER SECTION

 Rated output power: 	STEREO:	FRONT	100 W + 100 W (8 ohms load, T.H.D. 0.02%)
			140 W + 140 W (6 ohms load)

MONAURAL:

CENTER 50 W + 50 W (8 ohms load, T.H.D. 0.02%)

70 W + 70 W (6 ohms load)
REAR 50 W + 50 W (8 ohms load, T.H.D. 0.02%)

200 W (8 ohms load, T.H.D. 0.02%)

70 W + 70 W (6 ohms load)

CENTER 100 W (8 ohms load, T.H.D. 0.02%)

REAR 100 W (8 ohms load, T.H.D. 0.02%)

STEREO/MONAURAL: 0.008% (20 Hz ~ 20 kHz, –3 dB at rated output, 8 ohms)

Total harmonic distortion: STEREO/MONAURAL: 0.008% (20 Hz ~ 20 kHz, -3 dB at rated output, 8 ohms)
Intermodulation distortion: STEREO/MONAURAL: 0.005% or less (7 kHz/60 Hz = 1/4 at a load of 8 ohms and

amplitude output equivalent to the rated output) **Power bandwidth:**STEREO/MONAURAL: $5 \text{ Hz} \sim 50 \text{ kHz} (\text{T.H.D. } 0.05\%, -3 \text{ dB at rated output, } 8 \text{ ohms})$

FRONT

• Frequency response: STEREO: 1 Hz ~ 100 kHz (At a load of 8 ohms and 1 W output)

MONAURAL: 2 Hz ~ 80 kHz (At a load of 8 ohms and 1 W output)

• Input sensitivity: STEREO: 1 V

MONAURAL: 0.7 V

• Input impedance: STEREO: 47 kohms

MONAURAL: 47 kohms

Output impedance: STEREO: 0.08 ohms (1 kHz)

MONAURAL: 0.16 ohms (1 kHz)

• S/N ratio STEREO: 118 dB (IHF a Network): MONAURAL: 113 dB

GENERAL

Power supply:
 AC 120 V/60 Hz (for U.S.A. model)

AC 110/220 V 50/60 Hz (for multi-voltage model)

Power consumption: 6.0 A (for U.S.A. model)

450 W (for multi-voltage model) **Dimensions:** 434 (W) \times 185 (H) \times 415 (D) mm

434 (W) × 185 (H) × 415 (D) mm (17-3/32") × (7-9/32") × (16-11/32")

• Weight: 24.2 kg (53 lbs 6 oz)

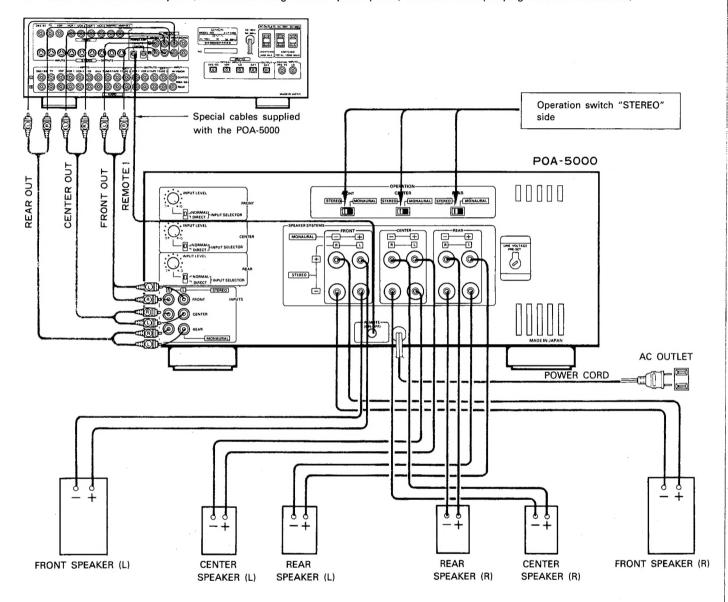
^{*} Specifications and design are subject to change without notice for the purpose of improvement.

CONNECTIONS

[When used for stereo operation]

Preamplifiers for surround and other reproduction equipment

AVP-5000 connection examples (When connecting another preamplifier, see the accompanying instruction manual.)



Precautions When Making Connections

- Do not plug the power cord into the power outlet until all the connections have been completed.
- After checking the left and right channels, make proper connections: L with L, and R with R.
- Insert the plugs securely. Incomplete connections will cause noise to be generated.
- Note that bundling pin-plug cords with the power cord or placing pin-plug cords close to the power transformer might lead to the occurrence of hum or noise.

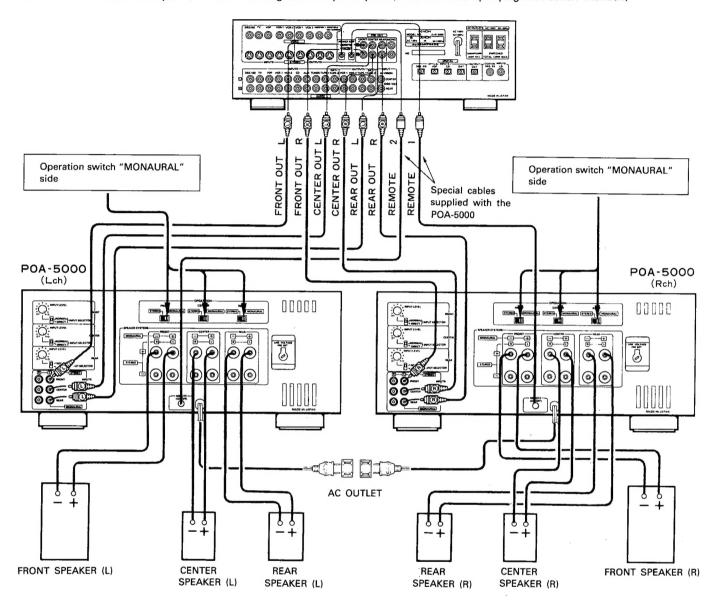
NOTE:

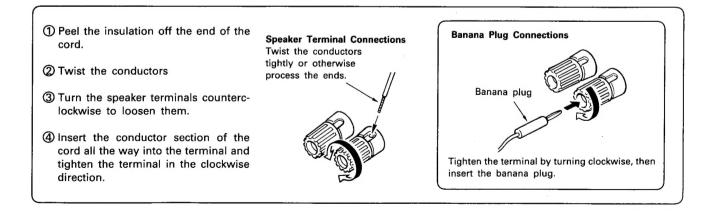
- Be sure to switch off the power before changing the position of the operation switch.
- The connection method for the speakers will differ with stereo and monaural operation.
- When the settings of the operation switches are made separately for each of FRONT, CENTER, and REAR, the input and speaker output
 connections must be made to match the stereo/monaural operation of the various sections.

[When used for monaural operation]

Preamplifiers for surround and other reproduction equipment

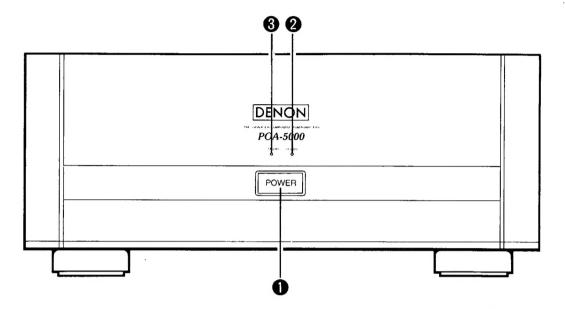
AVP-5000 connection examples (When connecting another preamplifier, see the accompanying instruction manual.)





NAMES AND FUNCTIONS OF THE PARTS

Front Panel



POWER (Power switch)

Pressing this switch causes the POWER indicator ② to light and the power to be switched on. The muting circuit will operate for several seconds to prevent the noise that arises when the power is switched on, then the amplifier will enter the normal operating condition.

Connecting the output of a DENON component equipped with a REMOTE output to REMOTE input ① of the rear panel in this condition (using the remote cable supplied with this amplifier) will allow the operating condition of the amplifier to be switched to standby or normal operation, synchronized with the power on/off state of the component at the other side. Pressing the POWER switch once again will cause the indicator to go off and the power to be switched off.

POWER (Power indicator)

The indicator lights up (red) when the power is on and goes off when the power is switched off.

STANDBY (Standby display)

This indicator lights up (orange) to indicate the standby condition when the power is switched off with the component of the other side which is connected with the remote cable.

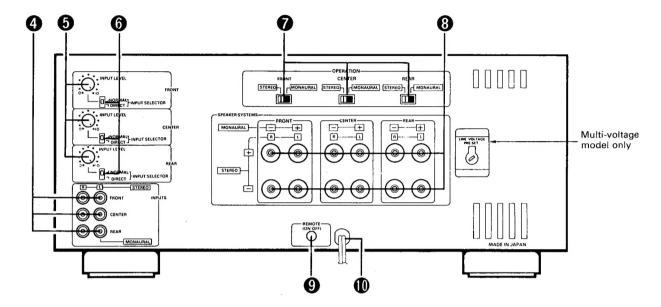
NOTE:

 When you will be away for a long period such as when on a trip, set the POWER switch of this amplifier to the off position, rather than use the standby condition.

- LINE VOLTAGE (Voltage select switch) . . . For Multi-voltage model only.
 - * The desired voltage may be set with the VOLTAGE SELECTOR KNOB on the back panel using a screw driver.
 - * Do not twist the VOLTAGE SELECTOR KNOB with excessive force. It may be damaged.
 - * If the voltage select switch does not turn smoothly, see qualified serviceman.



Rear Panel



4 INPUTS (Input jacks)

These are the input jacks for each of the FRONT, CENTER, and REAR sections. Make connections to correspond with each output of an AV surround preamplifier, etc. When OPERATION switch is set to MONAURAL, the left channel side becomes a monaural input jack. Do not connect the right channel side at this time.

6 INPUT LEVEL (Input level controls)

These controls are used to adjust the input level of each of the inputs: FRONT, CENTER, and REAR.

6 INPUT SELECTOR (Input selection switches)

Set to the "NORMAL" side when using the INPUT LEVEL controls **6**. This allows input level adjustments to be made. Setting to the "DIRECT" side makes the input signal bypass the input level control and applies the signal directly to the power amplifier to provide even higher quality reproduction.

OPERATION (Operation switch)

This switch provides switching between stereo and monaural operation to correspond with each input of the FRONT, CENTER, and REAR sections.

NOTE:

 This amplifier permits a bridged connection (BTL) of the 2 amplifiers (of the left and right channels) for monaural operation which uses a positive and negative polarity amplifier.

• "STEREO"

The amplifier is set to this position before being shipped from the factory. This setting provides 2-channel (left and right) stereo operation for each input.

"MONAURAL"

This setting uses the monaural input jack (left channel side) for monaural operation with each input.

NOTE

- The switches are equipped with covers to prevent erroneous operation. Use a flat-bladed screwdriver with a thin tip from the space at the top side, and be sure to perform the switching with the power off.
- Note that the connection method of the input jacks and the speaker terminals will differ depending on stereo or monaural operation. (See the connection diagrams on Pages 6 and 7.)
- This amplifier contains a 2-channel power amplifier for each of the FRONT, CENTER, and REAR sections for a total 6- channel structure. Selection of stereo or monaural operation with each OPERATION switch allows this amplifier to be used as a 6-, 5-, 4-, or 3-channel power amplifier.

8 SPEAKER SYSTEM (Speaker connection terminals)

Connect the speaker cords here. Be sure to connect the same polarity speaker system and amplifier speaker terminal (that is, (+) with (+), and (-) with (-)).

NOTE:

 The speaker connection method will differ for stereo and monaural operation. (See the connection diagrams on Pages 4 and 5.)

REMOTE (Power Supply Remote Input Jack)

Connect this jack with a DENON component equipped with a REMOTE (power supply remote output) jack. Use the special cable supplied with this amplifier for the connections.

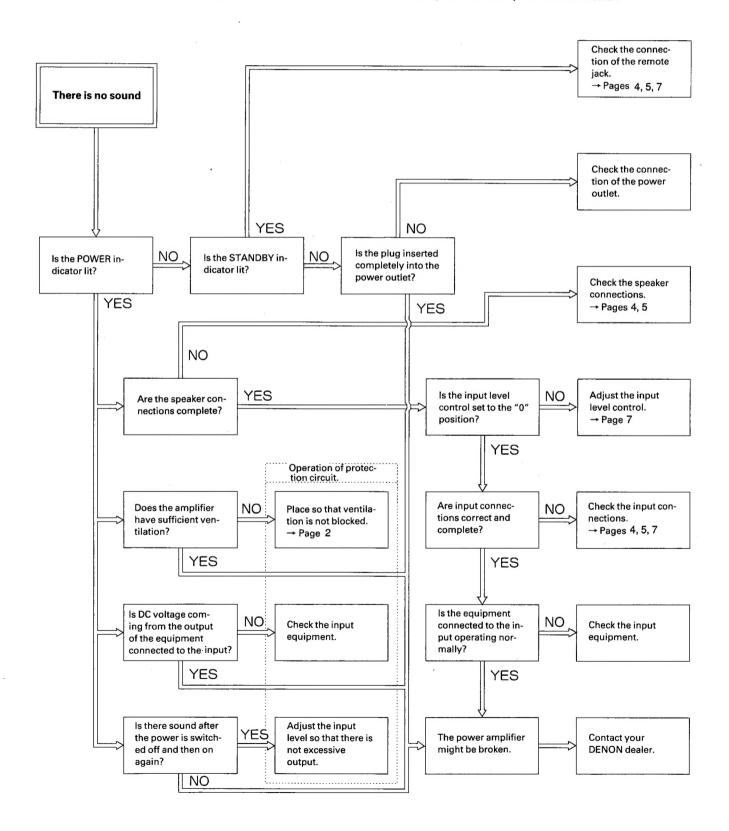
Power Cord

Plug this cord into the power outlet.

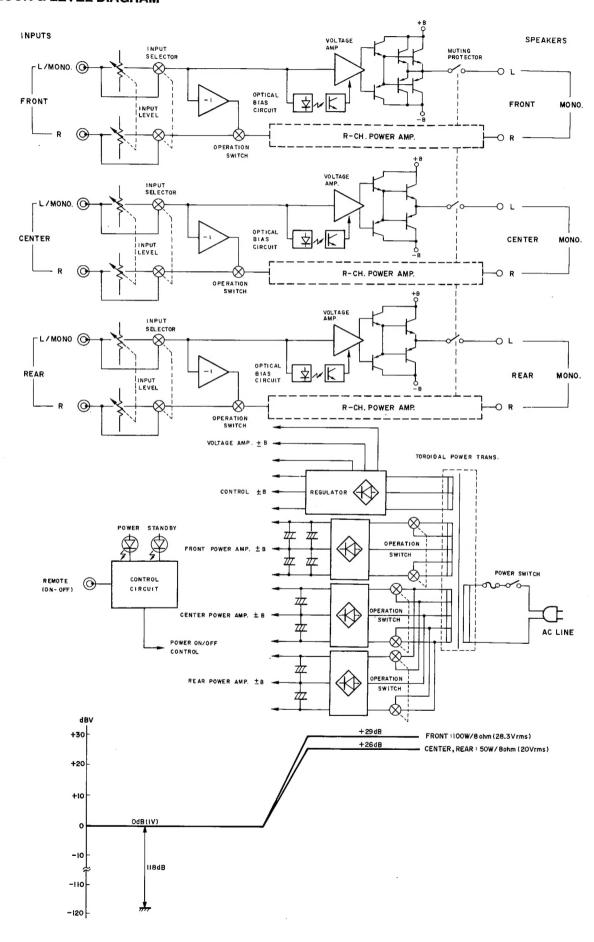
TROUBLESHOOTING

- 1. Have all connections been made PROPERLY?
- 2. Have you followed all operational instructions correctly?
- 3. Check speaker and the preamplifier systems for proper operation.

When your unit does not seem to be operating correctly, first check the items in the following table. If the symptom does not correspond to any of the problems as shown below, turn off the power sources immediately and contact your DENON dealer.



BLOCK & LEVEL DIAGRAM

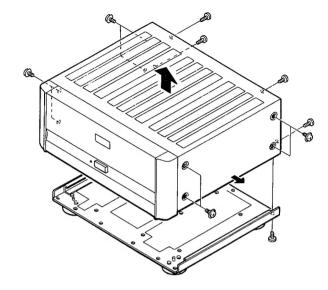


DISASSEMBLY INSTRUCTIONS

1. Top Cover and Bottom Cover

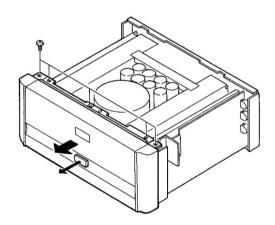
- Remove 8 screws on both sides and 4 screws on rear side. Stretch side plates of Top Cover sidewise, and pull up Top Cover in arrow direction.
- 2) Remove 20 screws and detach Bottom Cover.

Note) 8 Zine coated screws are attached on right and left of Bottom Cover. Do not remove those screws.



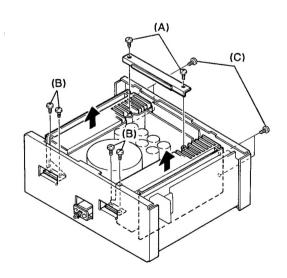
2. Front Panel

After pulling out power switch knob to front, remove 5 upper screws on Front Panel and pull Front Panel in arrow direction.



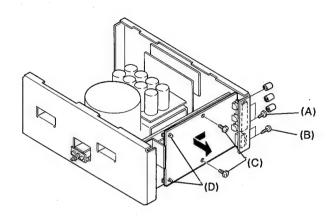
3. Power Unit (Left/Right)

Remove 2 screws (A) and detach Heat sink tank supporter. Secondly, remove 4 front screws (B) and 4 rear screws (C), then detach left and right Power Unit in arrow direction respectively.



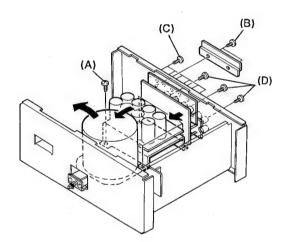
4. Input P.W.B.

- Take off 3 knobs of volume knob (FRONT, CENTER, REAR) of input level which is located on rear side.
- Remove rear 2 screws (A) fixing input volume holder to body, and remove 2 rear screws(B) fixing input terminal (RCA Jack).
- Remove 2 screws (C) fixing input P.W.B. and detach P.W.B. from holder (D) on two places. Then pull out P.W.B. in arrow direction.



5. Power Unit and Speaker Terminal

- 1) Remove 8 screws fixing power transformer.
- 2) Remove 4 screws (A) of holder fixing power P.W.B.
- 3) Remove rear 2 screws (B) and detach switch guard of operation switch.
- 4) Remove 6 screws (C) fixing operation switch.
- 5) Remove 3 screws (D) fixing Speaker terminal.
- Remove terminals of transformer, power unit, and speaker in arrow direction.



ADJUSTING AND CHECKING

- Adjustment of idling current.
 - 1) Measurement instruments required for adjustment.
- * Digital voltmeter *Low frequency oscillator

2) Preset

1)Place the unit where having normal use conditions avoiding abnormally ventilated places such as nearby electric fans. 2)Set knobs, switches and others as follows:

- POWER (Power switch) → OFF (■)
- Rear side INPUT LEVEL (Volume control knob) → (minimum)
- Rear side SPEAKER SYSTEM (Speaker terminal) → No load (no connection with speakers, dummy resistors, etc.)
- Rear OPERATION SWITCH (Operation shifting switch) → STEREO

3) Adjustment

1)Initial setting.

Remove Top Cover and set semi-fixed volume of Power Amplifier (1U-2236-1,-2), VR501, 502, 503, 504, 601, 602, 603, 604, 701, 702, 703, 704 at center position.

2) Idling current adjustment.

 Connect DC voltmeter to each test point (T.P.) of FRONT, CENTER, REAR and each of L/R channels, and turn Power switch "ON" (___) and turn semi-fixed volume for each channel to set to voltage values in Table 1.

Table 1

Adjust char	nnel	Adjust	Test point	Adjust voltage value (DC)	
		spot		Immediately after power ON	After 10 min.
FRONT	L	VR501	FRONT-L	1±0.5mV	10±1mV
	R	VR502	FRONT-R	1±0.5mV	10±1mV
CENTER	L	VR601	CENTER-L	1±0.5mV	4±1mV
	R	VR602	CENTER-R	1±0.5mV	4±1mV
REAR	L	VR701	REAR-L	1±0.5mV	4±1mV
	R	VR702	REAR-R	1±0.5mV	4±1mV

Note)Adjust voltage value between test points denotes the absolute value.

3)Adjustment of "Optical class A" idling current.

- Connect low frequency oscillator to each input terminal of each L/R channel of FRONT, CENTER, REAR, and input sine
 wave of 50m Vrms 1KHz.
- Set rear side INPUT LEVEL volume maximum () at that time confirm that indication of DC voltmeter are increasing by steps from the adjust values in Table I.
- Adjust voltage of each channel according to Table 2.

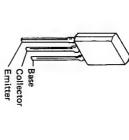
Adjust char	nnel	Adjust	Test point	Adjust voltage value (DC)	
		spot		Immediately after the increase	After 10 min.
FRONT	L	VR503	FRONT-L	40±5mV	55±2mV
	R	VR504	FRONT-R	40±5mV	55±2mV
CENTER	L	VR603	CENTER-L	45±5mV	60±2mV
	R	VR604	CENTER-R	45±5mV	60±2mV
REAR	L	VR703	REAR-L	45±5mV	60±2mV
	R	VR704	REAR-R	45±5mV	60±2mV

Note)Adjust voltage value between test points denotes the absolute value.

Table 2

DC voltmeter

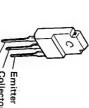
test point of each channel

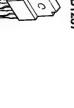


- Collector - Base - Emitter - Collector

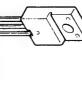




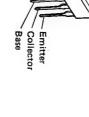


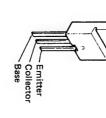


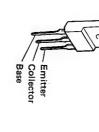
POA-5000

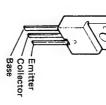


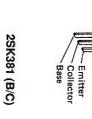














2SK184C (GR)/(BL)

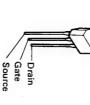


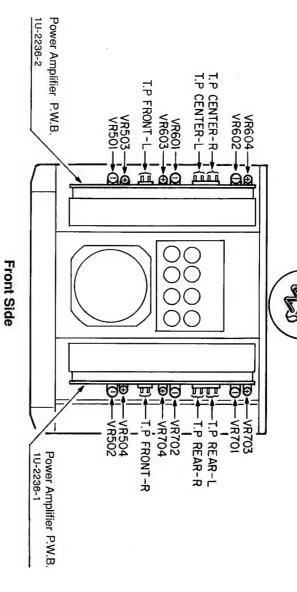
2SA1492LB (O/P/Y) 2SC3856LB (O/P/Y)

2SA1302 (R/O) 2SC3281 (R/O)

0







Confirmation of neutral point voltage.

1)Connect a DC voltmeter to speaker terminal.

Diode (included LED)

Collector Base

Base Emitter Collector

1S2076A 1SS270A

HZ5C-1 HZ9B-2 HZ12A-2

HZ18-1 HZS2B-1 HZS15-2

2)Turn power on for the unit.
3)Set rear side INPUT LEVEL volume at maximum (().
4)Confirm that voltage of digital voltmeter is within the range of ±100 mV (for each channel L/R).

SEMICONDUCTORS

TLP521-1 (BL)

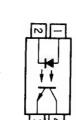
2SA988 (E/F) 2SC1841 (E/F) 2SD1111

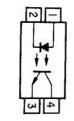
2SA1145 (O)/(Y) 2SC4208A 2SD667A (C)

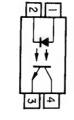
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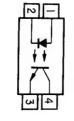
2SC2705 (O)/(Y)

Transitors

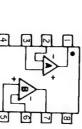










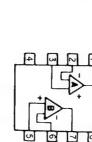


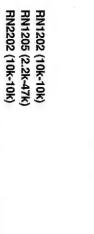
SFOR1A42

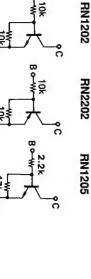
Light Blue

Light Blue

Thyristor

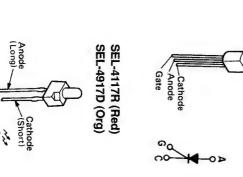


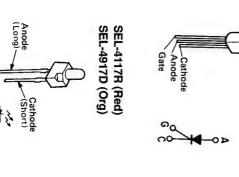


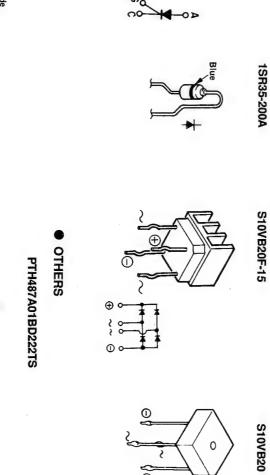


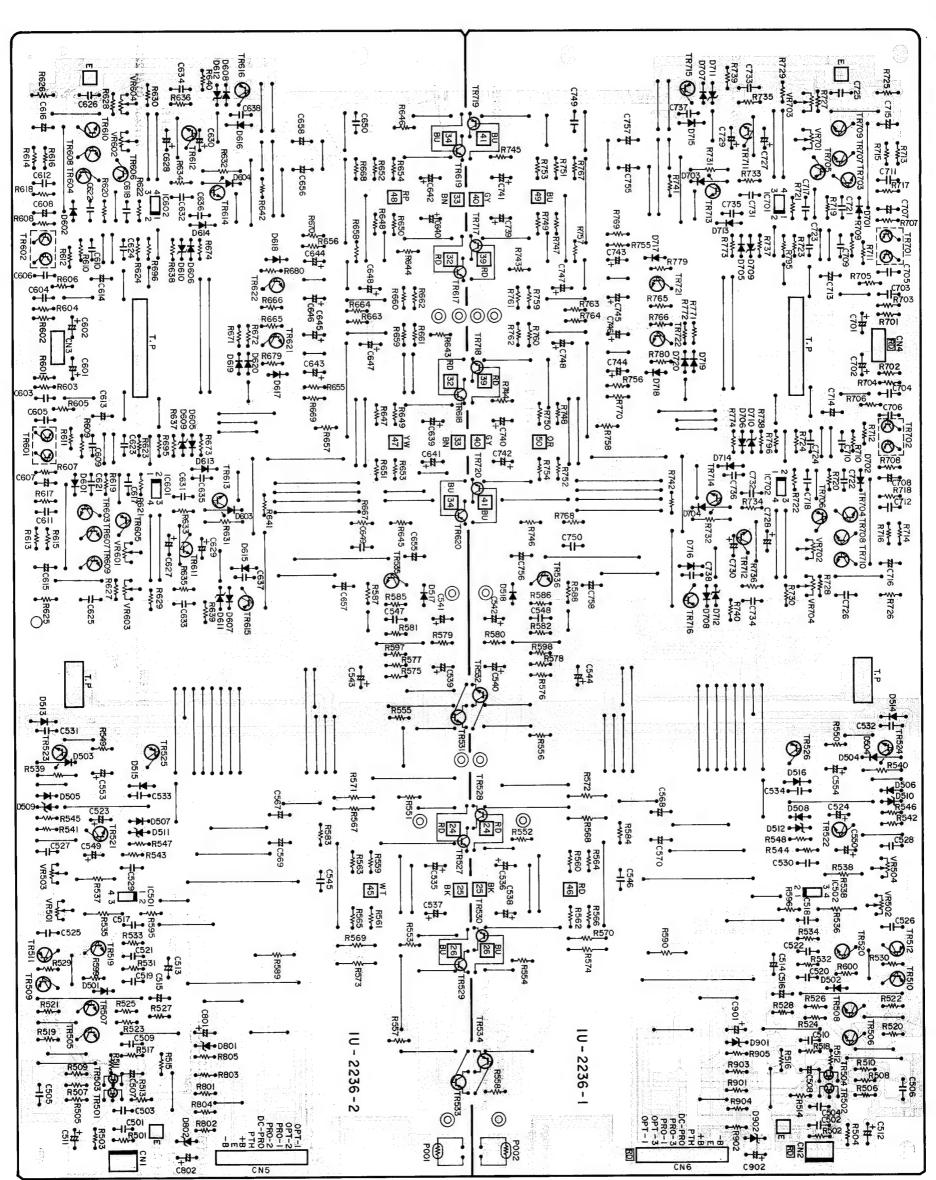
*Collector Emitter

Collector Emitter

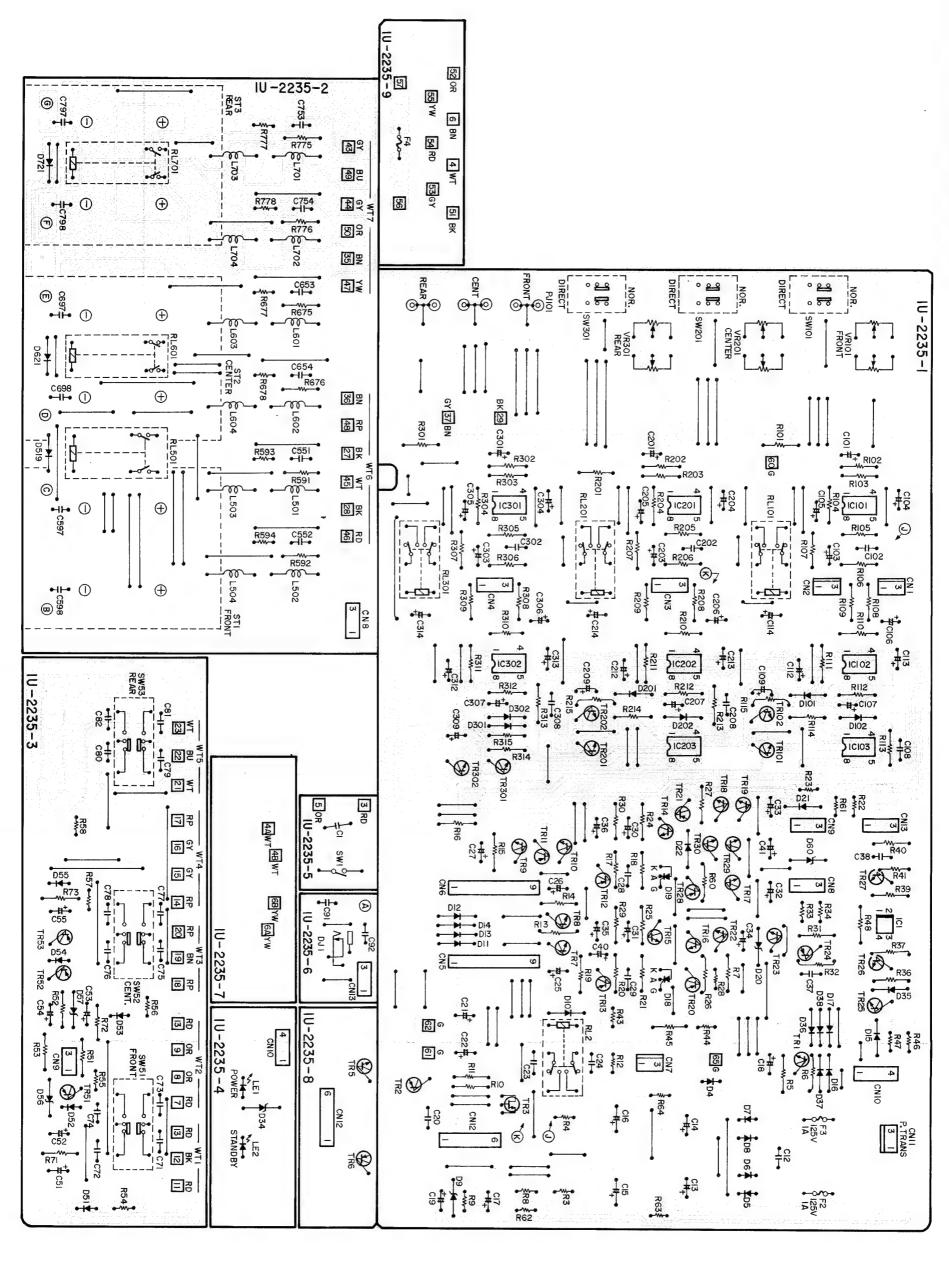




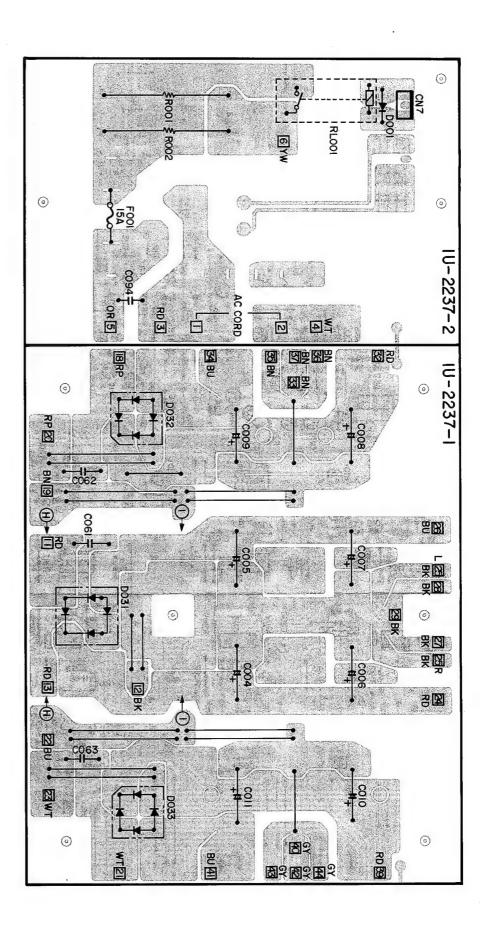




POA-5000



POA-5000



NOTE FOR PARTS LIST

- Part indicated with the mark " @ " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- Ordering part without stating its part number can not be supplied. When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Part indicated with the mark "*" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

Parts marked with this symbol riangle mave critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

Resistors Type Shape F and performance Power Power 182 Resistance G Allowable error

Capasitors

2R2 M Capasity Allowable error

Others

: Carbon
: Composition
: Metallic film
/: Winding
: Metal film
: Metal mixture 9999228 1/8W 1/4W 1/2W 1W 2W 3W G:±2% J:±5% K:±10% M:±20% TRAFT FR Others

Resistance 1

1800 ohm = 1.8 kohm Indicates number of zeros after effective number 2-digit effective numver, decimal point indicated by R. • Units: ohm : Pulse-resistant type
L : Low noise type
B : Non-burning type
R : Fuse-resistor
: Lead wire forming CE : Aluminum foil electrolyte
CA : Aluminum solid electrolyte
CS : Tantalm electrolite
CQ : Film
CK : Ceramic 55556 : Ceramic : Oil : Mica : Metallized : Metallized CE 04W 1H
Type Shape Dielectric and per- strength formance 22 2 2 2 3 4 T T T C Հ ջ

: 10V : 6.3V

G :±2% F

BP: Non-polar type HS : High stability type

:±1%

: 16V : 25V : 35V

≥ ⊼ ⊆

:±5% :±10% !:±20%

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: Ripple-resistant type : For charge and discharge : For assuring high

:50V :100V :125V :160V :160V :200V :250V :500V

-20% --20% :+100% --0% :±0.25pF :±0.5pF :0.5pF

P Z Z

TI≶O⊏

frequency
: UL part
: CSA part
: UL-CSA type
: Lead wire forming

100

Capasity

2 R 2 ⇒ 2.2μF
1-digit effective number, decimal point indicated by R.

Units: μF, (for P, pF (μμF))
When the dielectric strength is indicated in AC, "AC" is included after

1U-2236 POWER AMP UNIT PARTS LIST

	Part No. Part Name DUCTORS GROUP 262 0874 009 IC TLP521-1(BL) 275 0055 015 Transistor 2SK184C((273 0265 923) Transistor 2SC1841(E273 0281 906) 273 070 070 070 070 070 070 070 070 070 0	Ref. No. Par	SEMICONDUCTORS GROUP	IC501,502 262 0	601,602	701,702	TR501~504 275 00	TR505~508 273 02	TR509~512 273 02	TR519,520	TR521,522 273 03	TR523,524 274 01	TR525,526 272 0115 008	_	111303,300 273 0201 300							<u> </u>				
Part Name ROUP IC TLP521-1(BL) Transistor 2SK184C(GR)/(BL) Transistor 2SC2705(O)/(Y)TPE6 Transistor 2SC4208A Transistor 2SC4208A		Remarks						-																		
Part Name Remarks ROUP IC TLP521-1(BL) IC TLP521-1(BL) Transistor 2SK184C(GR)/(BL) Transistor 2SC1841(E/F) Transistor 2SC2705(O)/(Y)TPE6 Transistor 2SC4208A Transistor 2SC4208A Transistor 2SD1763A(D) Transistor 2SD1763A(D)	Remarks	Ref No	D501,502	D503,504	D505~508	D509~512	D513~516	D517,518	601,602	D603,604	D605~608	D609-612	-	D613~616	D613~616 D617~620	D613616 D617620 701,702	D613~616 D617~620 701,702 D703,704	D613~616 D617~620 701,702 D703,704 D705~708	D613-616 D617-620 701,702 D703,704 D705-708 D709-712	D613–616 D617–620 701,702 D703,704 D705–708 D709–712 D713–716	D613-616 D617-620 701,702 D703,704 D705-708 D709-712 D713-716 D717-720	D613-616 D617-620 701,702 D703,704 D705-708 D709-712 D713-716 D717-720 D801,802	D613616 D617620 701,702 D703,704 D705708 D709712 D713716 D717720 D801,802 901,902	D613–616 D617–620 701,702 D703,704 D705–708 D709–712 D713–716 D717–720 D801,802 901,902	D613616 D617620 701,702 D703,704 D705708 D709712 D713716 D717720 D801,802 901,902	D613-616 D617-620 701,702 D703,704 D705-708 D709-712 D713-716 D717-720 D801,802 901,902
### Remarks ### ################################		Dort No	276 0432 903	276 0049 914	276 0503 900	276 0450 901	276 0565 003	276 0432 903	٠	276 0049 914	276 0503 900	276 0450 901	276 0565 003		276 0432 903	276 0432 903	276 0432 903 276 0049 914	276 0432 903 276 0049 914 276 0503 900	276 0432 903 276 0049 914 276 0503 900 276 0450 901	276 0432 903 276 0049 914 276 0503 900 276 0450 901 276 0565 003	276 0432 903 276 0049 914 276 0503 900 276 0450 901 276 0565 003 276 0432 903	276 0432 903 276 0049 914 276 0503 900 276 0450 901 276 0565 003 276 0432 903 276 0476 914	276 0432 903 276 0049 914 276 0503 900 276 0450 901 276 0565 003 276 0432 903 276 0476 914	276 0432 903 276 0049 914 276 0503 900 276 0450 901 276 0565 003 276 0432 903 276 0476 914	276 0432 903 276 0503 900 276 0503 900 276 0565 901 276 0565 903 276 0432 903 276 0476 914	276 0432 903 276 0049 914 276 0503 900 276 0450 901 276 0565 003 276 0432 903 276 0476 914 R GROUP (N
### Remarks Ref. No. D501,502 D503,504 D505-508 D509-512 D513-516 D517,518 D613,604 D605-608 D603,604 D605-608 D609-612 D613-616 D613-61	Ref. No. D501,502 D503,504 D505-508 D509-512 D513-516 D517,518 601,602 D603,604 D605-608 D609-612	Dart Nama	Diode 1SS270A TE	Diode 1S2076A TE	Diode 1SS198 TE	Zener Diode HZS2B-1TD	Diode 1SS82	Diode 1SS270A TE		Diode 1S2076A TE	Diode 1SS198 TE	Zener Diode HZS2B-1TD	Dinde 19989	מוממט ויסססר	Diode 1SS270A TE	Diode 1SS270A TE	Diode 1S2276A TE	Diode 1SS270A TE Diode 1S2076A TE Diode 1S2076A TE	Diode 1SS270A TE Diode 1SS2076A TE Diode 1SS198 TE Zener Diode HZS2B-1TD	Diode 1SS270A TE Diode 1SS276A TE Diode 1SS198 TE Zener Diode HZS2B-1TD Diode 1SS82	Diode 1SS270A TE Diode 1SS276A TE Diode 1SS198 TE Zener Diode HZS2B-1TD Diode 1SS82 Diode 1SS270A TE	Diode 1SS270A TE Diode 1SS276A TE Diode 1SS198 TE Zener Diode HZS2B-1TD Diode 1SS82 Diode 1SS82 Zener Diode HZS15-2TD	Diode 1SS270A TE Diode 1SS276A TE Diode 1SS198 TE Zener Diode HZS2B-1TD Diode 1SS82 Diode 1SS82 Diode 1SS270A TE Zener Diode HZS15-2TD	Diode 1SS270A TE Diode 1S2076A TE Diode 1SS198 TE Zener Diode HZS2B-1TD Diode 1SS82 Diode 1SS270A TE Zener Diode HZS15-2TD	Diode 1SS270A TE Diode 1S2076A TE Diode 1SS198 TE Zener Diode HZS2B-1TD Diode 1SS82 Diode 1SS270A TE Zener Diode HZS15-2TD ot included Carbon Film.	276 0432 903 Diode 1SS270A TE 701,702 7701,702 7703,704 276 0049 914 Diode 1S2076A TE 7705-708 276 0503 900 Diode 1SS198 TE 7709-712 276 0450 901 Zener Diode HZS2B-1TD 7713-716 276 0565 003 Diode 1SS82 7717-720 276 0432 903 Diode 1SS270A TE 8001,802 276 0476 914 Zener Diode HZS15-2TD 901,902 RESISTOR GROUP (Not included Carbon Film, ±5% 1/4W type)
Ref. No. Part No.	Ref. No. Part No. D501,502 276 0432 903 D503,504 276 0049 914 D505-508 276 0503 900 D509-512 276 0450 901 D513-516 276 0565 003 D517,518 276 0432 903 601,602 276 0049 914 D603-608 276 0503 900 D609-612 276 0450 901	Domorke																				÷.	÷	: .	±5% 1/4W tv	±5% 1/4W type)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
∆R515,516	241 2379 987	Carbon 1Kohm1/4W (N.B)	RD14B2E102JNBS	 AR901~905	244 2051 903	Metal Oxide Film 8.2Kohm 1W	RS14B3A822JST
A R519~522	241 2379 903	Carbon 470ohm 1/4W (N.B)	RD14B2E471JNBS	VDEN4 E00	944 604 1 079	(N.B)	VOCATION
△R527,528	241 2380 921	Carbon 1.5Kohm 1/4W (N.B)	RD14B2E152JNBS	VR503,504	211 8005 005	Variable 47Kohm	V06QB473
∆R529,530	241 2377 934	Carbon 910hm 1/4W (N.B)	RD14B2E910JNBS	VR601,602	211 6014 072	Variable 10Kohm	V09QB103
MR541.542	241 23/1 94/	Carbon 3.3Kohm 1/4W (N.B)	RD14B2E3032.INBS	VR701 702	211 8005 005	Variable 4/Kohm	V06QB473
∆ R543,544	241 2379 987	Carbon 1Kohm 1/4W (N.B)	RD14B2E102JNBS	VR703,704	211 8005 005	Variable 47Kohm	V06QB473
△R549,550	241 2378 920	Carbon 220ohm 1/4W (N.B)	RD14B2E221JNBS				
AR551~558	241 2387 940	Carbon 4.7ohm 1/4W (N.B)	RD14B2E4R7JNBS	CAPACIT	CAPACITORS GORUP		
/13 nauc,008	208 0407 442	(N.B)	no 14BoAnzzao	C501,502	255 4217 907	Plastic Film 100pF/50V	CQ09P1H101JT
∆R574~578	241 2377 947	Carbon 100ohm 1/4W (N.B)	RD14B2E101JNBS	C505,506	255 1249 965	Plastic Film 0.0047µF/50V	CQ93M1H472JT
⚠R579,580	241 2376 977	Carbon 51ohm 1/4W (N.B)	RD14B2E510JNBS	C507,508	254 4356 027	Electrolytic 22µF/50V	CE04W1H220M(ARS)
△AR583,584	244 2050 904	Metal Oxide Film 22ohm 1W	RS14B3A220JST	C511,512	254 4356 027	Electrolytic 22uF/50V	CE04W1H220M(ARS)
MR585,586	241 2382 903	Carbon 8.2Kohm 1/4W (N.B)	RD14B2E822JNBS	C513~516	256 1033 035	Metalized 0.47µF/100V	CF93B2A474K(GU)
∆ R597,598	241 2380 921	Carbon 1.5Kohm 1/4W (N.B)	RD14B2E152JNBS	C517,518	255 4217 907	Plastic Film 10pF/50V	CQ09P1H101JT
△R599,600	244 2052 999	Metal Oxide Film 10Kohm 1W	RS14B3A103JST	C521,522	253 1179 987	Ceramic 470pF/50V	CK45B1H471KT
MR611,612	241 2379 987	Carbon 1Kohm 1/4W (N.B)	RD1482E102JNBS	C525,526	253 4468 909	Ceramic 8pF/500V	CC45SL2H080DT
∆R613~616	241 2381 946	Carbon 4.7Kohm 1/4W (N.B)	RD14B2E472JNBS	C527~530	253 1180 947	Ceramic 0.0015µF/50V	CK45B1H152KT
≜R619,620,	241 2379 929	Carbon 560ohm 1/4W (N.B)	RD14B2E561JNBS	C531~534	253 4484 909	Ceramic 39pF/500V	CC45SL2H390DT
623,624	241 2270 050	Carbon 2000chum 4 /AIM /M DI	DO ADORDO NIDO	C535~538	254 4291 700	Electrolytic 10µF/100V	CE04W2A100M(AWF)
AR633-636	241 2377 947	Carbon 100ohm 1/4W (N.B)	RD14B2E101JNBS	C543,544	254 4258 947	Electrolytic 47µF/35V	CE04W1V470MT
∆R641,642	241 2378 962	Carbon 330ohm 1/4W (N.B)	RD14B2E331JNBS	C545	255 4228 967	Plastic Film 0.01 µF/100V	CQ93M2A103JT
△R643~646	241 2387 908	Carbon 1ohm 1/4W (N.B)	RD14B2E010JNBS	C547,548	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103ZT
∆\R647~654	244 2055 912	Metal Oxide Film 0.47ohm 1W	RS14B3AR47JST	C553,554	254 4296 909	Electrolytic 1μF/160V	CE04W1H101M(AWF)
	241 2377 947	Carbon 100ohm 1/4W (N.B)	RD14B2E101JNBS	C567~570	256 1033 035	Metalized 0.47μF/100V	CF93B2A474K(GU)
 AR663,664	241 2376 977	Carbon 51ohm 1/4W (N.B)	RD14B2E510JNBS	C601,602	254 4304 927	Electrolytic 4.7 µF/35V	CE04W1V4R7MT
∆R665,666	241 2381 904	Carbon 3.3Kohm 1/4W (N.B)	RD14B2E332JNBS	C603,604	253 4542 003	Ceramic 100pF/50V	CC93CH1H101J
/I)H66/,668	244 2050 904	(N R)	RS14B3A220JS1	C609,610	255 6152 073	Polystyrene Film 56pF/250V	CQ09S2E560J
	241 2382 903	Carbon 8.2Kohm 1/4W (N.B)	RD14B2E822JNBS	C611,612	255 1249 965	Plastic Film 0.0047µF/50V	CQ93M1H472JT
 ∆R679,680	241 2380 963	Carbon 2.2Kohm 1/4W (N.B)	RD14B2E222JNBS	C613616	254 3073 903	Electrolytic(Bipolar) 1µF/100V	CE04D2A010MBPT
 MR711,712	241 2379 987	Carbon 1Kohm 1/4W (N.B)	RD14B2E102JNBS	C617,618	253 4537 966	Ceramic 47pF/50V	CC45SL1H470JT
ØR713-716	241 2381 946	Carbon 4.7Kohm 1/4W (N.B)	RD14B2E472JNBS	C623,624	253 4538 907	Ceramic 68pF/500V	CC45SL1H680JI
△R723,724	241 2379 929	Carbon 560ohm 1/4W (N.B)	RD14B2E561JNBS	C627,628	254 4260 948	Electrolytic 1µF/50V	CE04W1H010MT
 MR725,726	241 2378 959	Carbon 300ohm 1/4W (N.B)	RD14B2E301JNBS	C629,630	254 4289 039	Electrolytic 100µF/50V	CE04W1H101M(AWF)
△A733~736	241 2377 947	Carbon 100ohm 1/4W (N.B)	RD14B2E101JNBS	C631~634	253 1180 947	Ceramic 0.0015µF/50V	CK45B1H152KT
₾H/41,/42 ↑R743-746	241 2378 962	Carbon 330onm 1/4W (N.B)	RD14B2E331JNBS	C639~642	254 4396 906	Electrolytic 100µF/63V	CE04W1J101MT
MR747~754	244 2055 912	Metal Oxide Film 0.47ohm 1W	RS14B3AR47JST	C643~646	254 4260 993	Electrolytic 22µF/50V	CE04W1H220MT
		(N.B)		C647,648	254 4258 947	Electrolytic 47µF/35V	CE04W1V470MT
MR759~762	241 2377 947	Carbon 100ohm 1/4W (N.B)	RD14B2E101JNBS	C655~658	254 3046 901	Flectrolytic/Binolar) 11:E/100V	CE04D9A010MRPT
∆R765,766	241 2381 904	Carbon 3.3Kohm 1/4W (N.B)	RD14B2E332JNBS	C701,702	254 4304 927	Electrolytic 4.7µF/35V	CE04W1V4R7MT
∆R767,768	244 2050 904	Metal Oxide Film 22ohm 1W	RS14B3A220JST	C703,704	253 4542 003	Ceramic 100pF/50V	CC93CH1H101J
		(N.B)		C707,708	254 4356 027	Electrolytic 22µF/50V	CE04W1H220M(ARS)
MR769,770 MR779 780	241 2382 903	Carbon 8.2Kohm 1/4W (N.B)	RD14B2E822JNBS	C711.712	255 1249 965	Plastic Film 0.0047µF/50V	CQ93M1H472JT
AR801~805	244 2051 903	Metal Oxide Film 8.2Kohm 1W	RS14B3A822JST	C713~716	254 3073 903	Electrolytic(Bipolar) 1µF/100V	CE04D2A010MBPT
		(N.B)		C717,718	253 4537 966	Ceramic 47pF/50V	CC45SL1H470JT
7.4				0/23,/24	708 0004 007	Ceramic poprisory	CC45SLIH68WI
The state of the s		-					

1U-2235 INPUT/CONTROL UNIT

			519,621				
			201,202				
٠	Zener Diode HZ12A-2 Diode 1S20764	276 0318 001 276 0049 914	D060				
٠	Zener Diode HZ5C-1TE	276 0236 934	D056,057				
	Diode 1SR35-200A(T93X)	276 0253 905	D051~055				
	Diode 1S2076A	276 0049 914	D035~038				
	Zener Diode HZ9B2-TE	276 0218 936	D034				
	Diode 1S2076A	276 0049 914	D021.022				
	Zener Diode HZ12A-2	276 0318 001	D020				
	Diode SEOR1 A42/TPE2)	276 0016 904	D018-019				
	Zener Dioge HZ18-11E	2/6 0249 921	D009				
	Diode S2K20F	276 0348 000	D004-008				
	D. Transistor RN1205(2.2K-47K)T	269 0067 901	TR302				
	Transistor 29C1841T/E/E	273 0235 023	TB201				
	D Transistor BN1 205/2 2K-47K/T	260 0067 001	TB202				
	D. Hallskir HN (205(2.2N-4/N))	106 /900 697	TROOL				
	Tansista PNH 200/2 SV 47V/T	273 0235 923	17101				
	Transistor 29C18A1T(E/E)	273 0225 923	TB101				-
	D Transistor PNI3903(10k-10k)T	260 000 000	TBOSTOS				
	Transistor 2SC2458(BL)TPE4	273 0317 906	TR030				
	D.Transistor RN1202(10k-10K)T	269 0025 901	TR029				
	D.Transistor RN2202(10k-10K)T	269 0026 900	TR028				
	Transistor 2SC2458(BL)TPE4	273 0317 906	TR026,027			÷	
	Transistor 2SD667A(C)TZ	274 0060 900	TR025				
	Transistor 2SA988T(E/F)	271 0131 924	TR024				
	Transistor 2SC18411(E/F)	273 0235 923	TR023				
	Transistor 2SD11111	274 0111 901	TR022				
	D.Transistor RN2202(10k-10K)T	269 0026 900	TR020,021				
	D.Transistor RN1202(10k-10K)T	269 0025 901	TR019				
	Transistor 2SC2458(BL)TPE4	273 0317 906	TR018				
	D. I ransistor HN1202(10k-10k) I	269 0025 901	TR017				
	Iransistor 2SC2458(BL) IPE4	273 0317 906	1R016				
	U. Fransistor HN1202(10R-10R)	269 0025 901	IR014,015		9P EH Connector Base(Red)	205 0277 098	CN006
	Transistor 2SC1841T(E/F)	273 0235 923	TR013		9P EH Connector Base	205 0233 090	CN005
	Transistor 2SA1048(GR)TPE4	271 0191 916	TR011		3P EH Side Base/Red)	205 0588 033	CN004
	Transistor 2SC2458B(L)TPE4	273 0317 906	TR007~010		3P FH Side Connector Race	205 0234 031	CNDOS
	Transistor 2SB1287	272 0119 004	TR006		3P NH Connector Rase	205 0190 036	CN001 002
	Transistor 2SD1944	274 0138 007	TR005	PTH487A01BD222TS	Posistor	276 0289 004	P001.022
	FET 2SK381(B)/(C)T	275 0048 912	TR003			ARTS	OTHER PARTS
	Transistor 2SA988T(E/F)	271 0131 924	TR002				
	Transistor 2SC2878(A/B)TPE2	273 0253 918	TR001	CE04W1HZZ0M(AHS)	Electrolytic 22µF/50V	254 4356 027	206,1060
				CEO4WITIZZOM(ARS)	Electrolytic zzµr/sov	254 4350 027	C001,002
	IC NJM4558D-D	265 0030 004	IC302	CEU4DZAUTUMBPT	Electrolytic(Bipolar) µr/100v	254 3046 901	C001 000
	IC NJM2068DAC	263 0594 007	IC301	CCASMILLION	Flash Fill Columbus	252 42 13 97 2	0755 750
	IC NJM2082D	263 0654 002	IC203	COCHILITATION	Dicatio Eilm Oct :: E/EOV	255 4242 072	C740 750
	IC NJM4558U-D	265 0030 004	IC202	CEDAWAWAZOMT	Electrolytic 47 i E/25V	254 4258 947	C747 748
	IC NJM2068DAC	263 0594 007	IC201	CDOMINIONAL	Electrolytic 1994 F/50V	254 4260 993	C7/3-7/6
	IC NJM2082D	263 0654 002	IC103	CEDAWA HOLAT	Electrolytic 100 y E/69V	254 4206 006	C720 743
	IC NJM4558D-D	265 0030 004	IC102	COAECI SUSTANT	Ceramic 0.00 (5µr/500)	253 4490 003	C725 729
	IC NJM2068DAC	263 0594 007	IC101	CEU4WITHUIM(AWF)	Carrie Coute - Court	254 4289 039	C791 797
	IC Photo Coupler TLP521-1(BL)	262 0847 009	IC001	CE04W1H010M1	Electrolytic 1µF/50V	254 4260 948	C727,728
		SEMICONDUCTORS GROUP	OF INTERIOR	00,000			
				CC455L2H1000	Ceramic 10pH/500V	253 44 /0 900	C/25,/26

C028,029 C030	C027	C025,026	C023,024	C021,022	C020	C019	C018	C017	C015.016	C013,014	C012	11000	A CODY		VR301	VR101 201		777 778	677 678	₩ 853/ 503	/I\HU64		△ R063		∆ R062	Ahnoo		MR054-058		MR044-047	(3) (c)	≫ Bous	M H033,034		△ R028		MR022,023		∆R012		∱R009	23,1000	∌ Boos	∆\H003,004		RESISTO		LE001	1,01,110
253 1181 904 254 4254 938	254 4250 932	254 4254 909	253 1151 905	254 4356 027	253 4494 902	254 4291 700	256 1030 012	254 4261 921	254 4397 701	254 4262 784	255 6167 000		CAPACITORS GROOF		1	211 9106 000			100 000 115	244 2050 004	244 2043 937		244 2051 987		244 2052 902	241 2000 300	2000	241 2387 908		244 2052 902	211 2000 010	244 2050 975	244 2052 931		244 2051 974		241 2380 905		241 2379 916		244 2051 990	-11 COOL OOL	244 2052 902	241 2387 908		R GROUP (N		393 9420 907 393 9420 910	
Electrolytic 47μF/16V	Electrolytic 220µF/6.3V	Electrolytic 10µF/16V	Ceramic 0.0047µF/500V	Electrolytic 22µF/50V	Ceramic 100pF/500V	Electrolytic 10µF/100V	Metalized 1µF/100V	Electrolytic 100µF/50V	Electrolytic 2200µF/6.3V	Electrolytic 470µF/6.3V	Polystyrene Film 0.01µF/125V		Caramic 0.0111 E/250VAC			Variable 100Kohm	The state of the s		(NIB)	Matal Ovida Film 22ahm 1W	Metal Oxide Film Tuonin Tw.	(N.B)	Metal Oxide Film 4.7Kohm 1W	(NB)	Metal Oxide Film 2.7Kohm 1W	(N.B)	(N.B)	Carbon 1ohm 1/4W	(NB)	Metal Oxide Film 2.7Kohm 1W	(N.B)	Metal Oxide Film 1 3Kohm 1W	Metal Oxide Film 390ohm 1 W	(NB)	Metal Oxide Film 1.2Kohm 1W	(NB)	Carbon 1.2Kohm 1/4W	(NB)	Carbon 510ohm 1/4W	(NB)	Metal Oxide Film 4.7Kohm 1W	(N.B.)	(N.D) Metal Oxide Film 9 7Kohm 1W	Carbon 10nm 1/4w		RESISTOR GROUP (Not included Carbon Film.		LED SEL4117R-T LED SEL4917D-T	
CE04W1C470MT	CKASE1H1037T	CE04W1C100MT	CK45E2H472PT	CE04W1H220M(ARS)	CC45SL2H101JT	CE04W2A100M(AWF)	CF93W2A105J	CE04W1H101MT	CE04W1J222MC	CE04W1J471MC	CQ09S2B103K(B)	(Multi-Voltage Models)	CK45E2EAC1037C			V1620V30FB104			INO TOUR LEGIC	R\$14R34990.IS .	HOI4B3AIUWO	10000	RS14B3A4R7JS		RS14B3A272JS	TOTAL INCOME.	DD1 AD0E100 INDC	RD14B2E010JNBS		RS14B3A272JS	TO TOWN TO COO	RS14R3A132.IS	KS14B3A391JS		RS14B3A102JS		RD14B2E122JNBS		RD14B2E511JNBS		RS14B3A472JS		RS14R3A272.IS	HU146ZEUJUJNBS	יייייייייייייייייייייייייייייייייייייי	+5% 1/4W type)		(Red) (Orange)	
SW101,201 301	SW051~053	∆SW001	<u></u> _F002,003	A F002.003	BI 601 701	BI 501	201,201	BI 101 201	RION	701~704	601~604	501~504	OTHER PARTS	753,754	653 654	CEE1 EE3	C312,313	C3U9	C308	C304~307	C303	C302	C301	C214	C212,213	C208	C204~207	C203	C202	C201	C112,113	C109	C108	C104~107	C103	C102	C101	C091,092	C082	C071	C051 - 055	CD40	C038	C037	C036	C035	C034	C031 C032,033	
212 3644 008	212 2605 006	212 9534 002	206 1053 007	206 1039 034	214 0129 001	214 0037 009	1 0 000	214 0143 003	214 9013 008			235 0068 004	ARTS		233 4220 330	254 4230 930	254 4260 946	254 4254 909	253 1181 904	254 4260 948	255 4254 909	255 6163 059	254 4260 948	254 4256 936	254 4260 948	253 1181 904	254 4260 948	254 4254 909	255 6163 059	254 4260 948	254 4260 948	254 4254 909	253 1181 904	254 4260 948	254 4254 909	255 6163 059	254 4260 948	253 1181 904	255 4228 996	253 1181 904	254 4250 948	254 4256 002	253 1181 904	253 1151 905	254 4258 905	254 4254 909	254 1018 009	254 4250 932 254 4256 949	
Slide Switch	Slide Switch	Power Switch	Fuse 1.0A	Fuse 1.0A	Relay	Relav	110166)	Belay	Relay			Inductor			Ceramic o.ozzhi / 100 k	Coronio n population	Electrolytic 17E/26V	Electrolytic Toput/Tov	Ceramic 0.01µF/50V	Electrolytic 1µF/50V	Electrolytic 10µF/16V	Polystyrene Film 22pF/250V	Electrolytic 1µF/50V	Electrolytic 47µF/25V	Electrolytic 1µF/50V	Electrolytic 10 E/16V	Electrolytic 1µF/50V	Electrolytic 10µF/16V	Polystyrene Film 22pF/250V	Electrolytic 1µF/50V	Electrolytic 1µF/50V	Electrolytic 10µH/16V	Ceramic 0.01µF/50V	Electrolytic 1µF/50V	Electrolytic 10µF/16V	Polystyrene Film 22pF/250V	Electrolytic 1µF/50V	Ceramic 0.01µF/50V	Ceramic 0.022uF/100V	Ceramic 0.01 uF/50V	Electrolytic 100µ1/23V	Electrolytic 4.7 µF/35V	Ceramic 0.01µF/50V	Ceramic 0.0047μF/500V	Electrolytic 4.7μF/35V	Electrolytic 10µF/16V	Tantalum Electrolytic 10µF/16V	Electrolytic 220µF/6.3V Electrolytic 100µF/25V	
		(PUSH)TV-8	Multi-Voltage Models	U.S.A. Models	DHOTIL	.iC-48V		BY-24W	BS-RH-12S UL			1mH			Odazi Uzzoni	COOPPASS IT	CE04W1F470MT	CED4W1C1UUMT	CENTAL CHOOLE	CE04W1H010M1	CE04W1C100MT	CQ09S2E220J	CE04W1H010MT	CE04W1E470MT	CE04W1H010MT	CE04W1C100MT	CE04W1H010MT	CE04W1C100MT	CQ09S2E220J	CE04W1H010MT	CE04W1H01UM1	CED4W1C100M1	CK45F1H103ZT	CE04W1H010MT	CE04W1C100MT	CQ09S2E220J	CE04W1H010MT	CK45F1H103ZT	CQ92PA223JT	CK45F1H103ZT	CE04W1.I4B7MT	CED4W1E101MT	CK45F1H103Z1	CK45E2H472PT	CE04W1V4R7MT	CE04W1C100MT	CS45E1C100M	CE04W0J221MT CE04W1E101MT	

1U-2237 POWER SUPPLY UNIT

PARTS LIST OF EXPOLDED VIEW

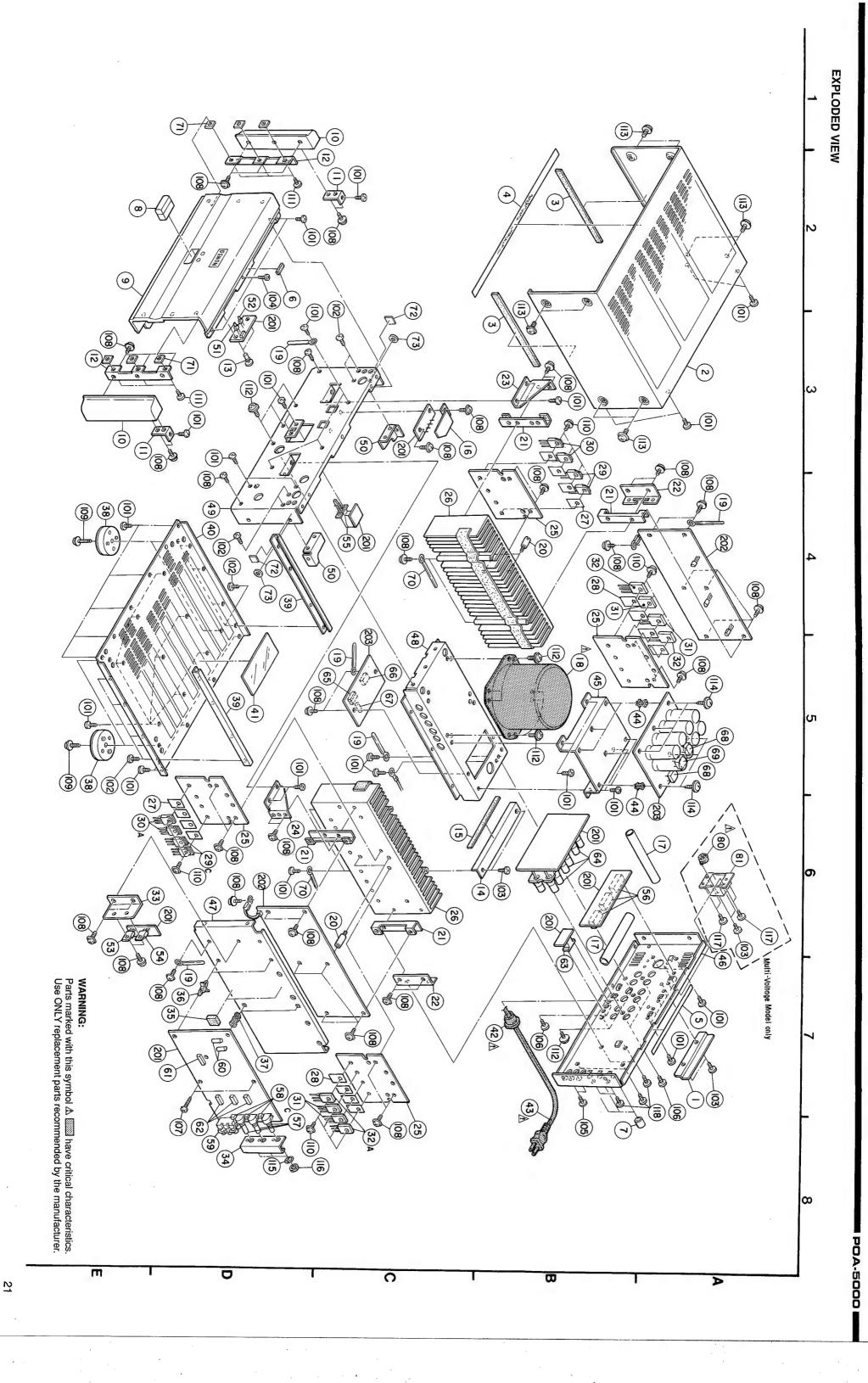
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7 5 5 5 6 3 5 5 5 6	48	46	å 45		3		4 :	8 6	38		s &			8 5	2 8	29	28	27 26	_		3 13			5 2			ಕೆ ಕ			75 =				ο œ			ຫ ບ			10	v -	
411 9097 104 412 9296 005 393 9420 907 393 9420 910 393 9420 910	411 9099 102 411 9098 103	105 9205 101	412 9287 108	415 9032 006	206 2083 005	445 0071 009	414 9117 009	412 9081 207 105 9185 108	104 9026 202	443 9015 002	461 0114 023	412 9289 106	417 9063 000	271 0245 001	271 0221 009	273 0355 077	415 9059 005	417 9061 109	417 9062 001	412 9290 108	412 9288 107	412 9274 014	443 0900 129	233 9643 000	233 9645 008	125 9004 047	461 0390 070	412 9295 006	477 0096 007	412 9293 008	144 9137 119	144 9137 106	144 9138 215	113 9242 110	113 9242 107	112 0555 007	461 9012 016	122 0095 001	461 9025 032	102 9036 122	102 9036 106	710 0001 007
FRONT CHASSIS BRACKET(A) LED(RED) LED(ORG)	TRANS. CHASSIS	REAR PANEL	CHEMI. CON. BRACKET	P.C.B. HOLDER(T)	AC CORD WITH PLUG	CORD BUSH	SAFETY SHEET	SUPPORT BRACKET	FOOT	P.W. SPACER	BC B HOLDER	LEVEL VOLUME BRACKET	HEAT SINK	TRANSISTOR 2SC3291	TRANSISTOR 2SA1492LB	TRANSISTOR 2SC3856LB	INSULATING SHEET	HEAL SINK	CUPLATE	HEAT SINK BRACKET(RIGHT)	HEAT SINK BRACKET (REAR)	P.W.B. BRACKET	P.W.B. SUPPORTER	CORD HOLDER	POWER TRANSFORMER	UL TUBE	INSLII ATING COVER	HEAT SINK SUPPORTER	PUSH RIVET	ESC. SUPPORTER	SIDE ESC. BAR	SIDE ESC. BAR	FORNT PANEL ASS'Y	FRONT PANEL ASS'Y	PUSH KNOB(P) ASS'Y	VOLUME KNOB(B)	CUSHION	SPACER	RUBBER SHEET	TOP COVER	TOP COVER	CHICALING
SEL4117R-T(LEI) SEL4917D-T(LE2)		Mulch-Voltage Models	II C A Models		Multi-Valtage Models												-						50	Multi-voltage Models	U.S.A. Models						(Black)	(Gold)	(Black)	(Black)	(Gold)					(Black)	(Gold)	
				:	117	115	114	113	112	## 1	109	108	107	106	100	103	102			€202	9 20 1			9 A			9 6		18	≫ [>		65	2	23 83	B	≫ 8	≱	n 58	57	56	Z 2	
		*			473 7002 034	475 3009 008	477 0262 006	477 0263 018	473 0263 005	471 1302 019	473 8007 009	473 8007 025	473 7501 014	477 0064 107	473 7015 018	473 7002 021	473 7002 005	1U-2237D	1U-2236D	1U-2236D	1U-2235D	1U-2235E	112 000 100	412 9304 005	461 9029 009	461 0390 012	415 9018 017	276 0356 005	276 0424 005	206 1057 030	214 0117 000	243 2079 021	205 0671 005	214 0143 003	214 9013 008	206 1053 007	204 8288 002	212 3644 008	211 9106 000	212 2605 006	274 0138 007	200000
					SCREW 3x6	SPECIAL WASHER (\$7)	SPECIAL SCREW	3POINT SWELLING SCREW	3POINT SWELLING SCREW	3×5 SCREW	3×12 SCREW WITH WASHER	3x8 SCREW WITH WASHER	SCREW 3×14	SCREW 3×10	SCREW 3×8	SCREW 3×8	SCREW 3x6	SCREW 3>B	POWER SUPPLY UNIT	POWER AMPLIFIER UNIT	INPUT/CONTROL UNIT	INPUT/CONTROL UNIT	BRACKET	VOLTAGE SELECTOR	SPACER	RUBBER SHEET	INSI II ATING SHEET	DIODE	DIODE	Fuse 15A	RELAY	WINDING RESISTOR	4P TERMINAL	RELAY	RELAY	Fuse 1.0A	FIRE TOA	SLIDE SWITCH	VARIABLE RESISTOR	SLIDE SWITCH	TRANSISTOR 2SD1944	17 100000000000000000000000000000000000
			0	1.1	CBTS(S)-B			(Gold)					CBTS(P)-Z	CBTS/P)-B	CBTS(S)-B	CBTS(S)-B	CBTS(S)-Z	Multi-Voltage Models	U.S.A. Models	Multi-Voltage Models	Multi-Voltage Models	U.S.A. Models	and a compa	Multi-Voltage Models Only	t0.5	t2	tn:3	D5FB20(4001)	4D4B42(LC1)	Wulti-Voltage Models	VS48MBUL TV-5	RW78A330K=(UL)		RY-24W	BSR-H-12S UL	Multi-Voltage Models	IISA Monels		V1620V30FB104			

PARTS LIST OF PACKING & ACCESSORIES

● ●
504 7102 003 504 7102 032 505 0075 051 505 8023 076 503 9219 100 503 9220 102 502 9122 003 501 9191 031 203 2247 004 511 9315 005 513 9160 007 513 9111 001
STYRENE PAPER (800×650) STYRENE PAPER (800×650) CABINET COVER ENVELOPE CUSHION (I.) CUSHION (REAR) CARTON CASE REMOTE PLUG CORD INST. MANUAL NOTICE SHEET COLOR LABEL (Gold)
FOR AC CORD For Accessories (Gold)

- **WARNING:**◆ Parts marked with " <u>M</u>" and/or shading have special characteristics important
- Be sure to use the specified parts for replacement.

 Part indicated with the mark " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- (Black) in the remarks coulmn refers models with black front panels, (Gold) to models with gold front panels.



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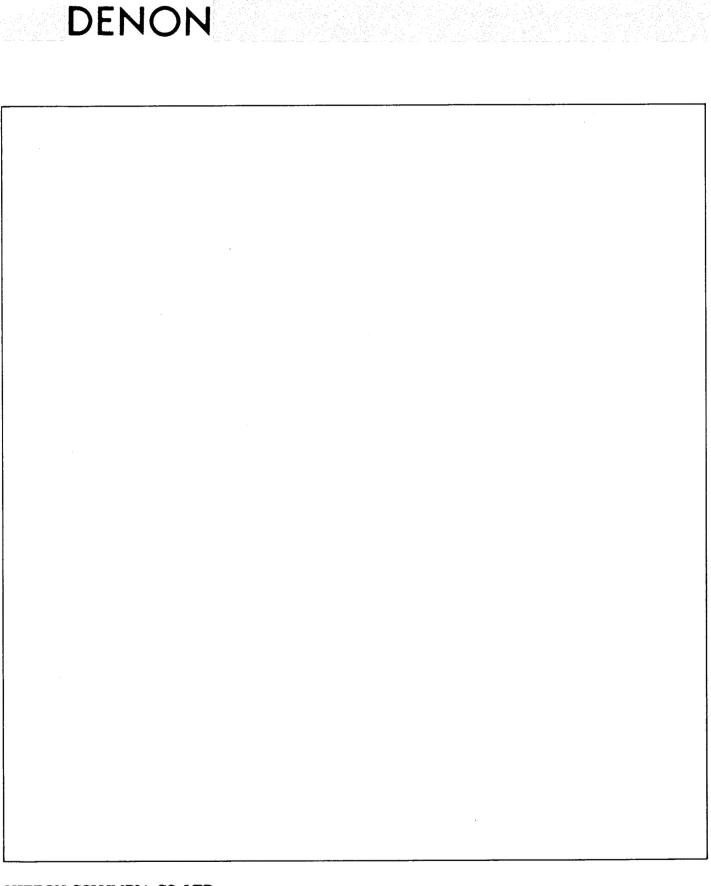
POWER SW UNIT

Bω Sω

IN 10 LED UNIT

U.S.A. Model

POA-5000



NIPPON COLUMBIA CO., LTD.

14-14, 4-CHOME AKASAKA, MINATO-KU, TOKYO 107-11 JAPAN TEL: 03-3584-8111 TLX: JAPANOLA J22591 CABLE: NIPPONCOLUMBIA TOKYO

